

FIG.1

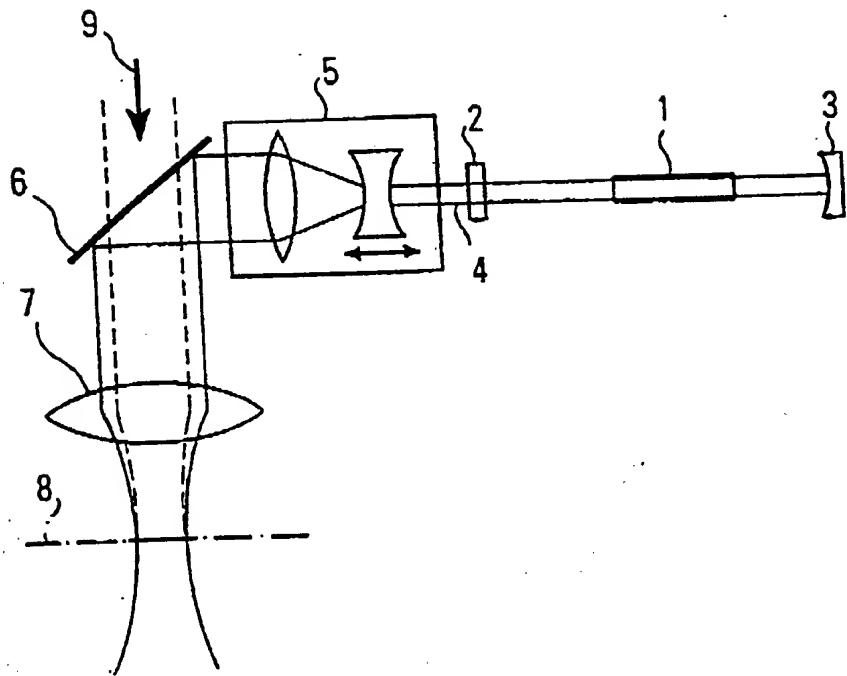


FIG.2a

Prior Art

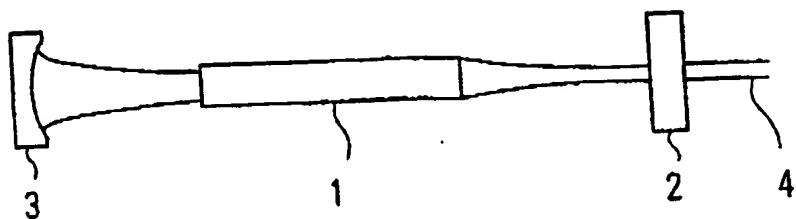
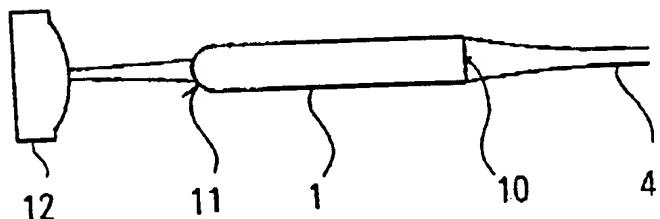
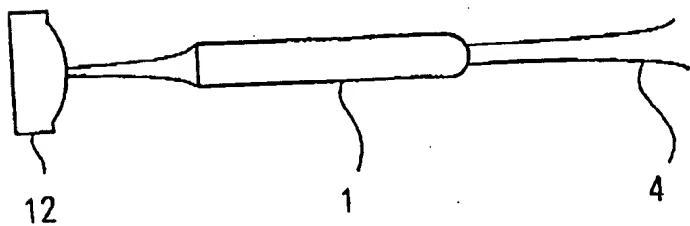
**FIG.2b****FIG.2c**

FIG.3

Focusing lens: $f = 116$ mm
 Distance Focusing lens-end of resonator: 285 mm
 Resonator length: 325 mm
 Rod length: 90 mm
 Radius of curvature: rear mirror: see legend
 Radius of curvature of output-mirror: planar

Initial pulse characteristics for a
"classic" resonator (prior art)

Simulation

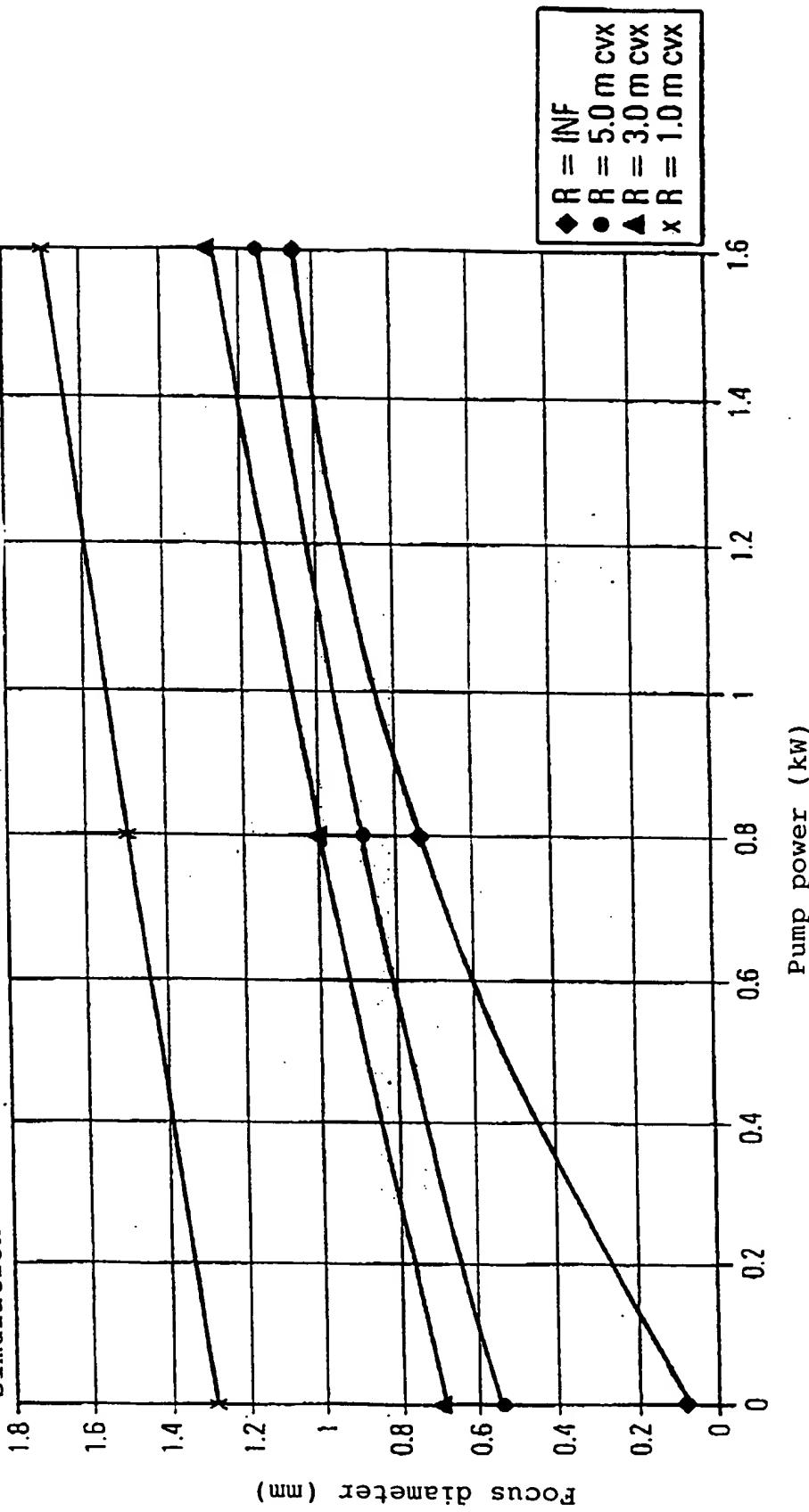


FIG.4

Comparison of a prior art resonator with a resonator according to the invention (Simulation)

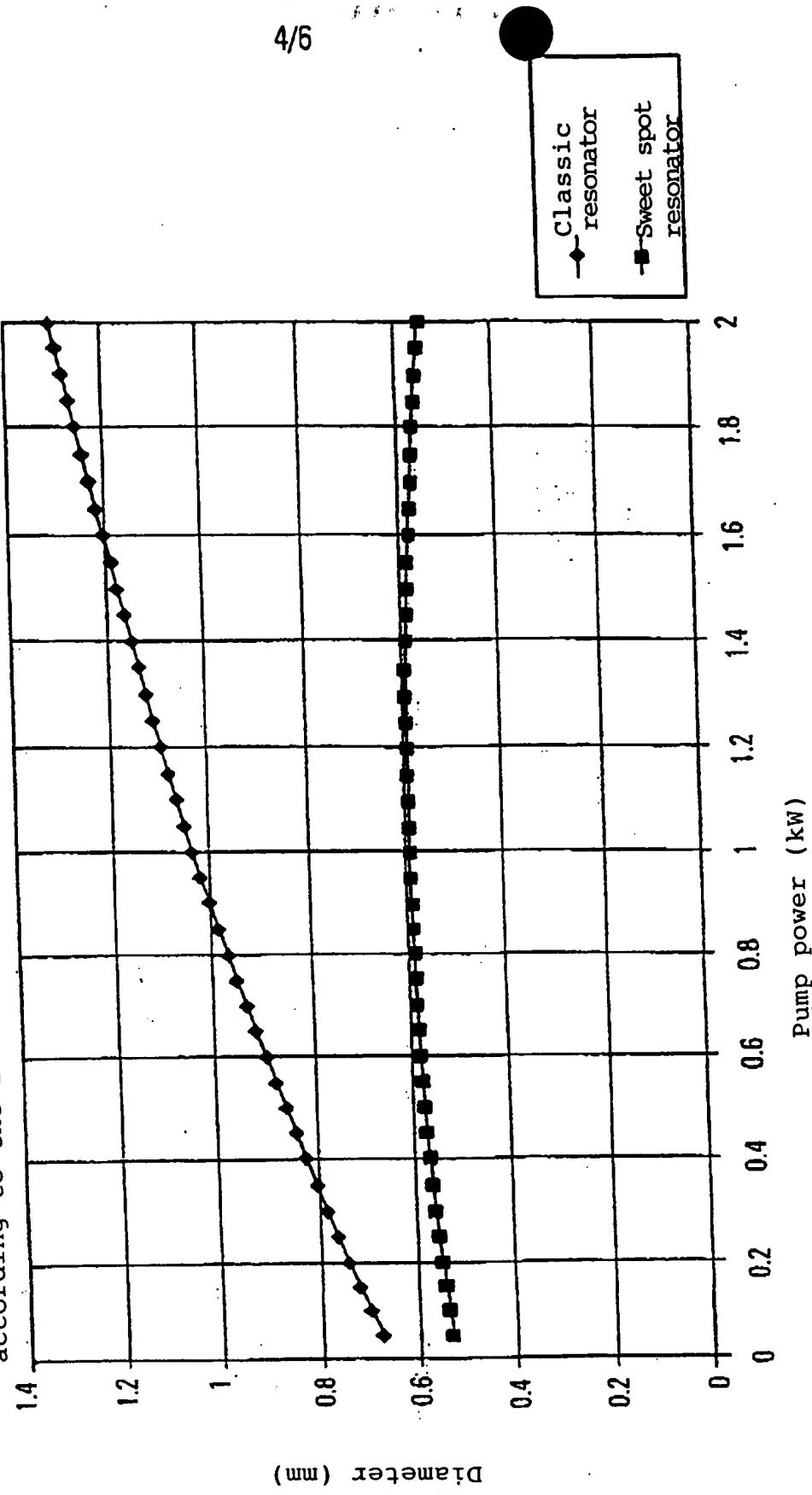


FIG.5

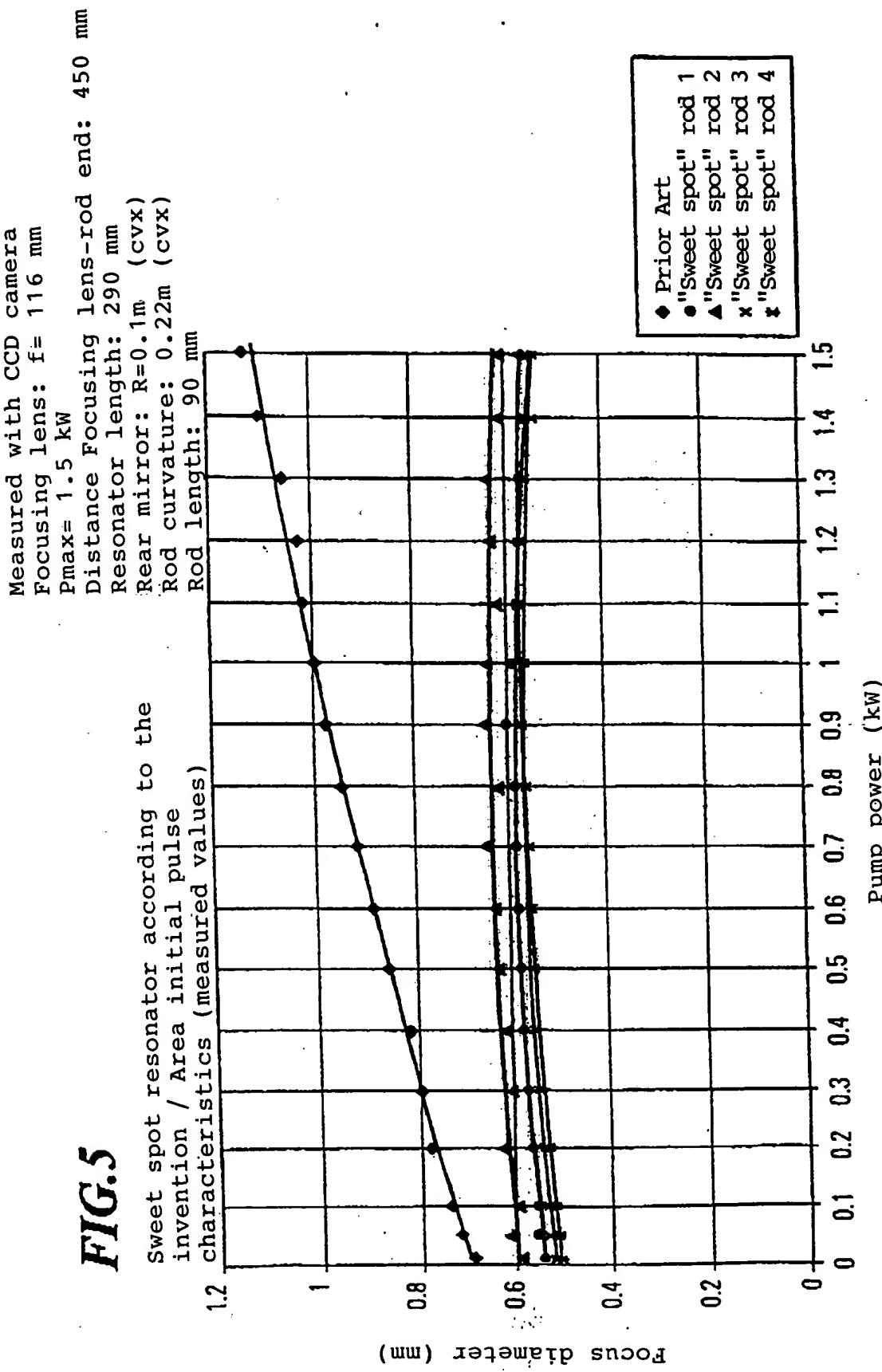


FIG.6 Multi-mode output side: M^2

RESONATOR 1: SD = 6:35 SL = 85 k = 3 D1 = 607.5, D2 = 42.5 RS = 999999999 AS = 999999999 D3 = 0 f = 0
 RESONATOR 2: SD = 6:35 SL = 85 k = 3 D1 = 607.5, D2 = 42.5 RS = 999999999 AS = 999999999 D3 = 0 f = 1800

